



भारत का राजपत्र

The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. ९]

मई विलो, शनिवार, जून ५, १९६५ (ज्येष्ठ १५, १८८७)

No. 9] NEW DELHI, SATURDAY, JUNE 5, 1965 (JYAISTA 15, 1887)

इस भाग में भिन्न पृष्ठ संलग्न ही जाती है जिससे कि यह प्रलग संकलन के रूप में रखा जा सके।
Separate paging is given to this Part in order that it may be filed as a separate compilation

भाग I—खण्ड ३

PART I—SECTION 3

रक्षा मंत्रालय द्वारा जारी किये गये विधिक नियमों, विनियमों, आदेशों और संकल्पों से संबंधित अधिकाराएं
Notifications relating to Non-Statutory Rules, Regulations, Orders and Resolutions issued
by the Ministry of Defence

MINISTRY OF DEFENCE

New Delhi, the 5th June 1965

No. 1282, dt. 11-5-65—An examination for admission to the Army, Navy and Air Force Wings of the National Defence Academy shall be held by the Union Public Service Commission at such places and on such dates as may be specified in the Notice issued by the Commission in this behalf. The number of the course and the month of its commencement at the Academy and also the approximate number of vacancies to be offered for entry on the results of the examination will be specified in the Notice issued by the Commission.

2. Admission to the National Defence Academy will be made on the results of a written examination to be conducted by the Union Public Service Commission, and an interview by a Services Selection Board.

3. Candidates should indicate in the application form their order of preference if they wish to compete for more than one Service. Due consideration will be given in the preference expressed by a candidate at the time of his application, but the Government of India reserve the right to assign him to any Service or branch of service taking into consideration the vacancies available in each Service or branch and the aptitude of the candidate.

NOTE 1.—Sailors (including boys and artificer apprentices) of the Indian Navy must give Indian Navy, as their first preference.

NOTE II.—Candidates who have applied for the Indian Navy Examination for admission as Special Entry Cadets into the Indian Navy, must exercise their final option before admission to the National Defence Academy course. After admission, they will not be considered for Special Entry in the Navy. They will also not be permitted to appear for any interview or examination after admission to the Academy.

4. A candidate must be an unmarried male and must either be :—

- (a) a citizen of India, or
- (b) a subject of Sikkim, or
- (c) a subject of Bhutan, or
- (d) a subject of Nepal, or
- (e) a person of Indian origin who has migrated from Pakistan with the intention of permanently settling in India.

Provided that a candidate belonging to categories (d) and (e) above shall be a person in whose favour a certificate of eligibility has been granted by the Government of India, and if he belongs to category (e) the certificate of eligibility will be issued for a period of one year only, after which such a candidate will be retained in service subject to his having acquired Indian citizenship.

Certificate of eligibility will not, however, be necessary in the case of candidates belonging to any one of the following categories :—

- (i) Persons who migrated to India from Pakistan before the nineteenth day of July, 1948, and have ordinarily been residing in India since then;
- (ii) Persons who migrated to India from Pakistan on or after the nineteenth day of July, 1948, and have got themselves registered as citizens of India under Article 6 of the Constitution;
- (iii) Gorkha subjects of Nepal.

A candidate in whose case a certificate of eligibility is necessary may be admitted to the examination and he may also provisionally be admitted to the Academy subject to the necessary certificate being granted in his favour by the Government.

NOTE.—A widower or a person who has divorced his wife cannot be treated as an unmarried male for the purposes of the above Rule.

5. CANDIDATES SHOULD BE MEDICALLY FIT IN ALL RESPECTS FOR SERVICE IN ANY PART OF THE WORLD. THE STANDARDS OF MEDICAL FITNESS ARE SHOWN IN APPENDIX III TO THE NOTIFICATION.

A NUMBER OF QUALIFIED CANDIDATES ARE REJECTED, SUBSEQUENTLY ON MEDICAL GROUNDS. CANDIDATES ARE, THEREFORE, ADVISED IN THEIR OWN INTEREST TO GET THEMSELVES MEDICALLY EXAMINED BEFORE SUBMITTING THEIR APPLICATIONS TO AVOID DISAPPOINTMENT AT THE FINAL STAGE.

A sufficient number of suitable candidates recommended by the Services Selection Board will be medically examined by a Board of Service Doctors. A candidate who is not declared fit by the Medical Board will not be admitted to the Academy, the very fact that the medical examination has been carried out by a Board of Service Doctors will not mean or imply that the candidate has been finally selected. The proceedings of the Medical Board are confidential and cannot be divulged to any one. The results of candidates declared unfit/temporarily unfit are intimated to them along with the procedure for submission of fitness certificate and appeal. No requests for the results of Medical Board will be entertained by the President of the Medical Board.

Candidates for the Army are advised in their own interest that if their vision does not come up to the standard, they must bring with them their correcting glasses if and when called up for Services Selection Board Interview/Medical Examination.

6. Candidates must undertake not to marry until they complete their full training. A candidate who marries subsequently

quent to the date of his application, though successful at this or any subsequent examination, will not be selected for training. A candidate who marries while in training shall be discharged and will be liable to refund all expenditure incurred on him by the Government.

7. A candidate for admission to the examination must have attained the age of 15 years and must not have attained the age of 17½ years on the first day of the month in which the course at the National Defence Academy is due to commence.

THE PRESCRIBED AGE LIMITS CAN IN NO CASE BE RELAXED.

8. A candidate must have passed one of the following examinations or must possess one of the following certificates :—

- (a) the Matriculation Examination of any University incorporated by an Act of the Central or State Legislature in India or an examination recognised by such a University as equivalent to its Matriculation Examination;
- (b) an examination held by a State Education Board at the end of the Secondary School Course for the award of a School Leaving, Secondary School, High School or any other Certificate which is accepted by the Government of that State as equivalent to Matriculation Certificate for entry into services;
- (c) the Cambridge School Certificate Examination (Senior Cambridge);
- (d) European High School Examination held by the State Governments;
- (e) Tenth Class Certificate from the Technical Higher Secondary School of the Delhi Polytechnic;
- (f) Tenth Class Certificate from a recognised Higher Secondary School, or from a recognised School preparing students for the Indian School Certificate Examination;
- (g) Junior examination of the Jamia Millia Islamia, Delhi in the case of bona fide resident students of the Jamia only;
- (h) Bengal (Science) School Certificate;
- (i) Final School Standard Examination of the National Council of Education, Jadavpur, West Bengal (since inception);
- (j) Vidyadhar Diploma of Gurukul Vishwa-Vidyalaya, Kangri, Hardwar;
- (k) Adhikari Diploma of Gurukul Vishwa-Vidyalaya, Brindaban;
- (l) the following French Examinations of Pondicherry; (i) 'Brevet Elementaire'; (ii) 'Brevet d' Enseignement Primaire de Langue Indienne'; (iii) 'Brevet D' etudes du Premier Cycle'; (iv) 'Brevet D' Enseignement Primaire Supérieur de Langue Indienne'; and (v) 'Brevet de Langue Indienne (Vernacular);
- (m) the Indian Army Special Certificate of Education;
- (n) the Higher Educational Test of the Indian Navy;
- (o) Advanced Class (Indian Navy) Examination;
- (p) Ceylon Senior School Certificate Examination;
- (q) Certificate granted by the East Bengal Secondary Education Board, Dacca;
- (r) School Leaving Certificate Examination of the Government of Nepal;
- (s) the Anglo-Vernacular School Leaving Certificate (Burma);
- (t) the Burma High School Final Examination Certificate;
- (u) Post War School Leaving Certificate of Burma;
- (v) General Certificate of Education Examination of London University at 'Ordinary' level provided it is passed in five subjects including English;
- (w) the 'Vinit' examination of the Gujarat Vidyapith, Ahmedabad.
- (x) Pass in the 5th Year of 'Lyceum' a Portuguese qualification in Goa, Daman and Diu.
- (y) any other examination which may be recognised by the Union Public Service Commission as equivalent to the above.

N.B.—The recognition of the qualifications mentioned against items (j) and (k) above is valid up to 17th September, 1965.

NOTE.—A candidate who has appeared at an examination the passing of which would render him eligible to appear at this examination but has not been informed of the result may apply for admission to the examination. A candidate who intends to appear at such a qualifying examination may also apply. Such a candidate will be admitted to this examination, if otherwise eligible, but the admission would be deemed to be provisional and subject to cancellation if he

does not produce proof of having passed the examination, as soon as possible, and in any case not later than a date which may be fixed by the Union Public Service Commission in this regard.

9. Candidates who were admitted to an earlier course at the National Defence Academy but were removed therefrom for lack of officer-like-qualities or on disciplinary grounds will not be admitted to the Academy.

Candidates who were previously withdrawn from the National Defence Academy on medical grounds or left the above Academy voluntarily, are, however, eligible for admission to the Academy provided they satisfy the medical and other prescribed conditions.

10. The decision of the Commission as to the eligibility or otherwise of a candidate shall be final.

11. A candidate found guilty of impersonation or of submitting fabricated documents or documents which have been tampered with or of making statements which are incorrect or false or suppressing material information or of using or attempting to use unfair means in the examination hall or otherwise resorting to any other irregular or improper means for obtaining admission to the examination or of misbehaviour in the examination hall, may, in addition, to rendering himself liable to a criminal prosecution, be debarred either permanently or for a specified period :—

- (a) by the Commission from admission to any examination or appearance at any interview held by the Commission for selection of candidates; and
- (b) by the Central Government from employment under them.

12. No candidate shall be admitted to the examination unless he holds a certificate of admission from the Commission.

13. Any attempt on the part of a candidate to obtain support for his candidature by any means may disqualify him for admission.

14. The examination will be conducted by the Commission in the manner prescribed in Appendix II to the Notification.

15. Candidates must pay the fee prescribed in Appendix I to the Notification. No claim for a refund of the fee will be entertained except to the extent stated in that Appendix, nor can fee be held in reserve for any other examination or selection.

16. The Union Public Service Commission shall prepare a list of candidates in the order of merit as disclosed by the aggregate marks awarded to each candidate at the written examination. The candidates who obtain the minimum qualifying marks in the written examination, as fixed by the Commission in their discretion, shall appear before a Services Selection Board for Intelligence and Personality Tests, where candidates for the Army/Navy will be assessed in officer potentiality, and those for the Air Force in Pilot Aptitude and officer potentiality. The maximum marks obtainable at these tests are 900.

To be acceptable, candidates for the Army/Navy should secure the minimum qualifying marks, separately in (i) written examination, and (ii) officer potentiality test, as fixed by the Commission in their discretion, and candidates for the Air Force should secure the minimum qualifying marks separately in (i) written examination, (ii) officer potentiality test, and (iii) Pilot Aptitude Test, as fixed by the Commission in their discretion. Subject to these conditions the qualified candidates will then be placed in the final order of merit on the basis of total marks secured by them in the written examination, and the Services Selection Board tests in two separate lists—one for the Army and the Navy and the other for the Air Force. The names of candidates who qualify for all the Services will appear in both the Merit Lists. The final selection for admission to the Army and Naval Wings of the National Defence Academy will be made in order of merit up to the number of vacancies available from the order of merit list for the Army and the Navy and for the Air Force Wing from the order of merit list for the Air Force subject to medical fitness and suitability in all other respects. The candidates who are common to both the merit lists will be considered for selection from both the lists with reference to their order of preferences and in the event of their final selection from one list, their names will be cancelled from the other list.

N.B.—EVERY CANDIDATE FOR THE AIR FORCE IS GIVEN PILOT APTITUDE TEST ONLY ONCE. THE GRADE SECURED BY HIM AT THE FIRST TEST WILL, THEREFORE, HOLD GOOD FOR EVERY SUBSEQUENT INTERVIEW HE HAS WITH THE AIR FORCE SELECTION BOARD. A CANDIDATE WHO FAILS IN THE FIRST PILOT APTITUDE TEST CANNOT APPLY FOR ADMISSION TO THE NATIONAL DEFENCE ACADEMY EXAMINATION FOR THE AIR FORCE WING, OR THE AIR FORCE FLYING COLLEGE EXAMINATION.

Candidates, who have been given the Pilot Aptitude Test for any previous N.D.A. course, should submit their applications for this examination only if they have been notified as having qualified in Pilot Aptitude Test.

Candidates will appear before the Services Selection Board and undergo the test thereat at their own risk and will not be entitled to claim any compensation or other relief from Government in respect of any injury which they may sustain in the course of or as a result of any of the tests given to them at the Services Selection Board, whether due to the negligence of any person or otherwise. Parents or guardians of the candidates will be required to sign a certificate to this effect on the form appended to the application. Candidates when called for interview by a Services Selection Board, or for medical examination or for subsequent training will be eligible for travelling allowance in accordance with the rules then in force. Candidates who have previously been before a Services Selection Board for the same type of Commission are not entitled to travelling allowance when called up for Services Selection Board interview, or Medical Examination on subsequent occasions.

NOTE.—The form and manner of communication of the result of the examination to individual candidates shall be decided by the Commission in their discretion, and the Commission will not enter into correspondence with them regarding the result.

17. Success at the examination confers no right of admission to the Academy.

A candidate must satisfy the appointing authority that he is suitable in all respects for admission to the Academy.

18. Candidates finally selected will undergo a three-year course at the National Defence Academy. After this three years training the successful candidates will undergo further specialists training for the Service for which they may be selected. While at the National Defence Academy, cadets will be subjected to the discipline of the Academy.

19. Before a candidate joins the Academy, the parent or guardian will be required to sign :

- (a) A certificate to the effect that he fully understands that he or his son/ward shall not be entitled to claim any compensation or other relief from the Government in respect of injuries/bodily infirmity/death which his son/ward may sustain in the course of or as a result of the training/operation/anaesthesia given to him at the National Defence Academy.
- (b) A bond to the effect that, if for any reasons considered within the control of the candidate, he wishes to withdraw before the completion of the course, or fails to accept a commission, if offered, he will be liable to refund the whole or such portion of the cost of tuition, food, clothing and pay and allowances received, as may be decided upon by Government.

20. The cost of training including accommodation, books, uniforms, boarding and medical treatment will be borne by the Government. Parents or guardians of cadets will, however, be required to meet their pocket and other private expenses. Normally these expenses are not likely to exceed Rs. 30.00 p.m. If in any case a cadet's parent or guardian is unable to meet wholly or partly even this expenditure, financial assistance up to Rs. 30.00 p.m. may be granted by the Government. No cadet whose parent or guardian has an income of Rs. 350.00 p.m. or above would be eligible for the grant of the financial assistance. The immovable property and other assets and income from all sources are also taken into account for determining the eligibility for financial assistance.

The parent/guardian of a candidate desirous of having any financial assistance should immediately after his son/ward having been finally selected for training at the National Defence Academy, submit an application through the District Magistrate of his District who will forward the application with his recommendation to the Director of Military Training (MT-6), Army Headquarters, New Delhi.

21. Candidates finally selected for training at the Academy will be required to deposit the following amount with the Commandant, National Defence Academy, on arrival there :—

(a) Pocket allowance for five months at Rs. 30.00 per month.	Rs. 150.00
(b) For items of clothing and equipment	Rs. 650.00

Total .. 800.00

Out of the amount mentioned above the following amount is refundable to the cadets in the event of financial aid being sanctioned to them :—

(a) Pocket allowance for five months at Rs. 30.00 per month.	Rs. 150.00
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(b) For items of clothing and equipment	Rs. 520.00
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22. The following scholarships are tenable at the National Defence Academy :—

1. **PARSHURAM BHAU PATWARDHAN Scholarship.**—This scholarship is awarded to cadets from Maharashtra and

Karnatak. The value of one scholarship is up to a maximum of Rs. 500.00 per annum for the duration of a cadet's stay at the National Defence Academy, subject to the cadet making satisfactory progress. The scholarship will also be available at the Army, Naval or Air Force training establishments where a cadet may be sent for further training after he has completed his training at the National Defence Academy. The cadets who are granted this scholarship will not be entitled to any other financial assistance from the Government.

2. **MAHARAJA JAGADDIPENDRA NARAYAN Scholarship.**—This scholarship of the value of Rs. 360.00 per annum is granted to a needy cadet who fails to secure any financial assistance from the Government and is paid on completion of a term at the National Defence Academy. The scholarship is sanctioned by the Government on a means-cum-merit basis.

3. **COLONEL KENDAL FRANK MEMORIAL Scholarship.**—This scholarship is of the value of Rs. 360.00 per annum and is granted to a Maratha cadet who should be the son of an ex-serviceman. The scholarship is in addition to any financial assistance from the Government.

4. **KUER SINGH MEMORIAL Scholarship.**—Two scholarships are awarded to two cadets who obtain the highest position amongst candidates from BIHAR. The value of each scholarship is Rs. 37.00 per mensem tenable for a maximum period of 4 years during the training at the National Defence Academy, KHARAKVASALA and thereafter at the Indian Military Academy, Dehradun and the Air Force Flying College and Naval Training Establishments where the cadets may be sent for training on completion of their training at the National Defence Academy. The scholarships will, however, be continued subject to making good progress at the above institutions.

5. **ASSAM GOVERNMENT Scholarships.**—With effect from 1st April, 1960, four scholarships have been sanctioned by the Assam Government. These scholarships will be awarded annually to the cadets from ASSAM. The value of each scholarship is Rs. 30.00 per mensem and is tenable for the duration of a cadet's stay at the National Defence Academy. The first two scholarships will be awarded to the two best cadets from ASSAM without any reference to the income of their parents. The other two scholarships will be awarded to any other two cadets from ASSAM whose parents' income is less than Rs. 300.00 per mensem. The cadets who are granted this scholarship will not be entitled to any other financial assistance from the Government.

6. **UTTAR PRADESH GOVERNMENT Scholarship.**—This scholarship of the value of Rs. 30.00 per month and an outfit stipend of Rs. 400.00 is awarded to a cadet who belongs to Uttar Pradesh State on merit-cum-means basis and is tenable for a period of three years subject to satisfactory performance by the cadet at the National Defence Academy. Cadets who are granted this Scholarship are not entitled to any other financial assistance from Government.

7. **KERALA GOVERNMENT Scholarship.**—One scholarship of the annual value of Rs. 360.00 is awarded for each course at the National Defence Academy during the entire period of training by the KERALA State Government to the students who secure admission to the Academy after passing out from the Rashtriya Indian Military College, Dehradun, and who have been domiciled in the State of KERALA. This scholarship is awarded to the cadets who are not eligible for Government of India assistance and whose parents or guardians have a monthly income below Rs. 500.00 per mensem.

S. DEVANATH, Dy. Secy.

APPENDIX I

Fee

Candidates seeking admission to the examination must pay the following fee with the completed application form :—

Rs. 28.00 (Rs. 7.00 in the case of candidates belonging to Scheduled Castes and Scheduled Tribes).

This amount should be paid by means of Treasury Receipt or CROSSED Indian Postal Orders payable to the Secretary, Union Public Service Commission. The Commission will not accept payment made otherwise.

2. Once an application has been considered by the Commission and their decision admitting a candidate to the examination communicated to him, no claim from the candidate for a refund of the fee paid by him to the Commission will be entertained nor can the fee be held in reserve for any other examination or selection. If, however, a candidate is not admitted to the examination by the Commission, a refund of Rs. 15.00 (Rs. 4.00 in the case of candidates belonging to Scheduled Castes and Scheduled Tribes) will be made to him.

3. The children of Junior Commissioned Officers, Non-Commissioned Officers and other ranks of the Army and equivalent ranks in the Indian Navy and Indian Air Force studying in the King George's Schools/Sainik Schools run by the Sainik Schools Society whose applications are forwarded by the Principals with the recommendation to the effect that the applicants are expected to secure at least

30 per cent of the aggregate marks of the written papers are not required to pay any fee.

4. The Commission may at their discretion remit the prescribed fee where they are satisfied that the applicant is a bona fide displaced person from East Pakistan and has migrated to India on or after 1st January, 1964 and is not in a position to pay the prescribed fee.

APPENDIX II

1. The subjects of the written examination, the time allowed and the maximum marks allotted to each subject will be as follows :—

Subject	Duration	Maximum Marks
1. English	2½ hours	300
2. General Knowledge and Current Affairs—		
Paper I		
Current Affairs & History	2 hours	150
Paper II		
Science and Geography .. .	2 hours	150
3. Mathematics I	2 hours	150
4. Mathematics II	2 hours	150

2. CANDIDATES ARE EXPECTED TO BE FAMILIAR WITH THE METRIC SYSTEM OF COINS, WEIGHTS AND MEASURES. IN THE QUESTION PAPERS, WHEREVER NECESSARY, QUESTIONS INVOLVING THE USE OF METRIC SYSTEM OF COINS, WEIGHTS AND MEASURES MAY BE SET.

3. All question papers must be answered in English unless otherwise expressly stated in the question paper.

4. Candidates must write the papers in their own hand. In no circumstances will they be allowed the help of a scribe to write the answers for them.

5. The Commission have discretion to fix qualifying marks in any or all the subjects at the examination.

6. From the marks assigned to candidates in each subject, such deduction will be made as the Commission may consider necessary in order to secure that no credit is allowed for merely superficial knowledge.

7. Deductions up to 5 per cent of the maximum marks for written subjects will be made for illegible handwriting.

8. Credit will be given for orderly, effective and exact expression combined with due economy of words in all subjects of the examination.

SCHEDULE

STANDARD AND SYLLABUS OF THE EXAMINATION

The standard of the papers will approximately be the same as that of the Matriculation Examination

ENGLISH—

Questions may be asked on any of the following :—

- (a) An exercise in composition to test the candidate's ability to write simple and grammatically correct English.
- (b) A simple prose passage to be condensed by the candidate with the object of testing comprehension and expression.
- (c) Correction of sentences.
- (d) Reported Speech, Questions and Commands.
- (e) Use of simple words having similar pronunciation but different meanings and common phrases.

GENERAL KNOWLEDGE—

There will be two papers :

Paper I—dealing mainly with Current Affairs and History.

Paper II—dealing with Science and Geography.

The following syllabus is designed to indicate the scope of each subject included in these papers. The topics mentioned are not to be regarded as exhaustive and questions on topics of similar nature not mentioned in the syllabus may also be asked. Candidates' answers are expected to show their intelligent understanding of the question and not detailed knowledge of any text book.

PAPER I

Current Events.—Knowledge of important events, that have happened in India during the past two years. India's system of Government. Important measures of legislation

whether undertaken by the Central or State Legislatures. Broad questions of India's policy relating to foreign affairs. Questions set will test factual knowledge of candidates.

World events of international importance. Important personalities; both Indian and foreign. Sports and other cultural activities of outstanding importance.

Indian History.—Board outline knowledge of Indian History. Knowledge of India's ancient culture and civilization as disclosed by monuments, ancient buildings and masterpieces of literature. Growth of self-government. Main stages in the national movement leading to Independence

World History.—Elementary knowledge of major events in World history. Reforms or national movements such as represented by the French Revolution, Industrial Revolution in the U.K., the American War of Independence, the foundation of U.S.S.R., World Wars I and II, Modern freedom movements in Asia.

PAPER II

SCIENCE—

Physics.—Physical properties and states of matter and simple measurements of mass, weight, density and specific gravity.

Motion of object, velocity, acceleration, force, gravity.

Effects of heat, measurement of temperature, transference of heat, change of state.

Rectilinear propagation of light, phenomenon of reflection and refraction.

Natural and artificial magnets properties of a magnet.

Electricity, static and current, conductors, and non-conductors, heating, lighting and magnetic effects of currents.

Chemistry.—Physical and chemical changes, elements, mixtures and compounds, chemical properties of air, chemical composition of water. Preparation and properties of Oxygen.

Hydrogen and Nitrogen, Acids, Bases and Salts, Carbon Coal, Carbon-di-oxide.

General.—Elementary knowledge of the human body and its important organs.

Names and uses of common animals, trees, plants, flowers, birds and minerals.

Common epidemics, their causes, means of prevention and cure.

Eminent Scientists and their achievements.

GEOGRAPHY—

The shape and movements of the earth. Time. Night and Day and the Seasons. Climate and Weather—the main climatic and vegetation regions. The Earth's crust—erosion, transportation and deposition, earthquakes and volcanoes. Tides and Ocean currents, Maps.

Human occupations and activities in relation to Geographical factors.

The Geography of India with special reference to the above.

MATHEMATICS

PAPER I

Arithmetic.—Vulgar and decimal fractions and the extraction of square roots. Ratio and proportion, percentages, averages, profit and loss, simple and compound interest. Conversion of various systems of Weights and Measures. Problems involving time and distance (unitary method).

Stocks and shares omitted

Mensuration.—Determination of areas and volumes associated with rectangular blocks, circular cylinder, cone and sphere. (Practical problems involving these would be given and, if necessary, formulae may be given).

PAPER II

Algebra—Elementary basic operations—use of brackets. H.C.F., L.C.M., Fractions—Factors—Remainder Theorem, Ratio and Proportion. Indices and Surds (Elementary only). Equations of first and second degree and easy simultaneous equations involving two unknowns. Practical problems.

Graphs.—Idea of graphs—Interpolation—Solution of easy quadratic and simultaneous equations.

Geometry.—A thorough understanding of plane Geometry with special emphasis on—

- (i) Properties of angles at a point.
- (ii) Parallel Lines.
- (iii) Angles of triangles.
- (iv) Congruency of triangles.
- (v) Properties of angles, sides and diagonals of a parallelogram, rhombus, rectangles, square and trapezium.
- (vi) Circle and its properties including tangents and normals.
- (vii) Cyclic quadrilaterals.

- (viii) Idea of projection.
- (ix) Similar triangles.
- (x) Practical problems and constructions involving use of geometrical instruments, viz., bisection of an angle and straight line, construction of perpendiculars, parallel lines or triangles, tangents to circles, inscribed and circumscribed circles of triangles.

INTELLIGENCE AND PERSONALITY TEST

In addition to the interview the candidates will be put to Intelligence Tests both verbal and non-verbal designed to assess their basic intelligence. They will also be put to Group Tests, such as group discussions, group planning, outdoor group tasks, and asked to give brief lectures on specified subjects. All these tests are intended to judge the mental calibre of a candidate. In broad terms, this is really an assessment of not only his intellectual qualities but also his social traits and interests in current affairs.

APPENDIX III

PHYSICAL STANDARDS FOR ADMISSION TO THE NATIONAL DEFENCE ACADEMY

To be passed fit for admission to the National Defence Academy a candidate must be in good physical and mental health and free from any disability likely to interfere with the efficient performance of duty.

2. It will, however, be ensured that :—

- (a) there is no evidence of weak constitution, imperfect development, serious malformation or obesity.
- (b) there is no maldevelopment or impairment of function of the bones or joints.
- (c) there is no impediment of speech.
- (d) there is no malformation of the head, deformity from fracture or depression of the bones of the skull.
- (e) there is no impaired hearing discharge from or disease of either ear, unhealed perforation of the tympanic membranes or signs of acute or chronic suppurative otitis media or evidence of radical or modified radical mastoid operation.

NOTE.—A soundly healed perforation without any impairment of the mobility of the drum and without impairment of hearing should not be a bar to acceptance of a candidate for the Army.

- (f) there is no disease of the bones or cartilages of the nose or nasal polypus or disease of the nasopharynx.
- (g) there are no enlarged glands in the neck and other parts of the body and that the thyroid gland is normal.

N.B.—Scars of operations for the removal of tuberculosis glands are not a cause for rejection provided that there has been no active disease within the preceding 5 years and the chest is clinically and radiologically clear.

- (h) there is no disease of the throat, palate, tonsils or gums or any disease or injury affecting the normal function of either mandibular joint.

N.B.—Simple hypertrophy of the tonsils, if there is no history of attacks of tonsillitis, is not a cause for rejection.

- (i) there is no sign of functional or organic disease of the heart and blood vessels.
- (j) there is no evidence of pulmonary tuberculosis or previous history of this disease or any other chronic disease of the lungs.
- (k) there is no evidence of any disease of the digestive system including any abnormality of the liver and spleen.
- (l) there is no hernia or tendency thereto.
- (m) there is no hydrocele, or definite varicocele or any other disease or defect of the genital organs.

N.B.—A candidate who has been operated for a hydrocele will be accepted if there are no abnormalities of the cord and testicle and there is no evidence of filariasis.

- (n) there is no fistula and/or fissure of the anus or evidence of haemorrhoids.
- (o) there is no disease of the kidneys. All cases of Glycosuria and Albuminuria will be rejected.

- (p) there is no disease of the skin unless temporary or trivial. Scars which by their extent of position cause or are likely to cause disability or marked disfigurement are a cause for rejection.
- (q) there is no active, latent or congenital venereal disease.
- (r) there is no history or evidence of mental disease. Candidates suffering from epilepsy incontinence of urine or enuresis will not be accepted.
- (s) there is no squint or morbid condition of the eye or of the lids which is liable to a risk of aggravation or recurrence.
- (t) there is no active trachoma or its complications.

N.B.—Remedial operations are to be performed prior to entry. No guarantee is given of ultimate acceptance and it should be clearly understood by the candidates that the decision whether an operation is desirable or necessary is one to be made by their private medical adviser. The Government will accept no liability regarding the result of operation or any expense incurred.

3. Standards for Height, Weight and Chest measurements.

(a) Height.—(i) The height of a candidate will be measured by making him stand against the standard with his feet together. The weight should be thrown on the heels and not on the toes or outer sides of the feet. He will stand erect without rigidity and with the heels, calves, buttocks and shoulders touching the standard; the chin will be depressed to bring the vertex of the head level under the horizontal bar, and the height will be recorded in centimeters and parts of a centimeter to halves.

(ii) The minimum acceptable height for a candidate is 157.5 cm. except in the case of Gorkhas, Nepalese, Assamese and Garhwali candidates in whose case the height may be reduced by 5.0 cm.

NOTE.—Relaxation of height up to 2.5 cm. may be allowed where the Medical Board certifies that the candidate is likely to grow and come up to the required standard on completion of his training.

(iii) Air Force only.—To meet the special requirements for training as a pilot, the minimum height and leg length will be :—

Height	162.5 cm.
Leg length Hip to Heel	99.0 cm.

N.B.—On account of the lower age of candidates a margin of up to 5.0 cm. in height and 2.5 cm. in leg length may be given, provided it is certified by the Medical Board that the candidate is likely to grow and come up to required standard on completion of his training at the National Defence Academy.

(b) Weight.—(i) Weight will be taken with the candidate fully stripped or with under pants only. In recording weight, fraction of half a kg. will not be noted. A correlation table between age, height and average weight is given below for guidance.

Age Period	15-16	16-17	17-18
Height (cm)	Weight (Kg.)	Weight (Kg.)	Weight (Kg.)
157.5	43.5	*--	--
160.5	45.0	46.5	--
162.5	46.5	48.0	50.0
165.0	48.0	50.0	52.5
167.5	49.0	51.0	52.5
170.0	51.0	52.5	54.5
172.5	52.5	54.5	56.0
175.5	54.5	56.0	58.0
178.0	56.0	58.0	60.0
180.0	58.5	60.0	62.0
183.0	61.0	62.5	64.5

(ii) It is not possible to lay down precise standards for weight in relation to height and age. The correlation table is therefore, only a guide and cannot be applied universally. A 10 per cent. departure from the average weight given in the table is to be considered as within normal limits. There may nevertheless be some individuals who according to the above standard may be overweight but from the general build of the body are fit in every respect. The over-weight in such cases may be due to heavy bones and muscular development and not to obesity. Similarly for those who are under-weight, the criteria should be the general build of the body and proportionate development rather than rigid adherence to standards in the above table.

(c) *Chest*.—The chest should be well developed with a minimum range of expansion of 5.0 cm. The candidate's chest will be measured by making him stand erect with his feet together, and his arms raised over his head. The tape will be so adjusted round the chest that its upper edge touches the inferior angles of the shoulder blades behind, and its lower edge the upper part of the nipples in front. The arms will then be lowered to hang loosely by the side. Care will be taken that shoulders are not thrown upwards or backwards so as to displace the tape. The candidate will then be directed to take a deep inspiration several times and the maximum and minimum expansions of the chest will be carefully noted. The minimum and maximum will then be recorded in cm. 84/89, 86/91 etc.

In recording the measurements, fraction of less than half a centimeter should not be noted

4. Dental condition.

It should be ensured that a sufficient number of natural and sound teeth are present for efficient mastication.

(a) A candidate must have a minimum of 14 dental points to be acceptable. In order to assess the dental condition of an individual, points are allotted as under for teeth, in good apposition with corresponding teeth in the other jaw :

- (i) Central incisor, lateral incisor, canine, 1st and 2nd premolar and under-developed 3rd Molar—1 point each.
- (ii) 1st and 2nd molar and fully developed third molar—2 points each.

When all 32 teeth are present, there will be a total count of 22 points.

(b) The following teeth in good functional apposition must be present in each jaw :

- (i) Any 4 of the 6 anteriors.
- (ii) Any 6 of the 10 posteriors.

(c) Candidates suffering from severe pyorrhoea will be rejected. Where the state of pyorrhoea is such that in the opinion of the dental officer, it can be cured without extraction of teeth, the candidate may be accepted.

5. Visual Standards.

(a) Visual acuity :

Standard I

	Better eye.	Worse eye
Distant Vision V-6/6	V-6/9 Correctable to 6/6
Near Vision	.. Reads 0.5 or JI	Reads 0.5 or JI

Standard II

Distant Vision (corrected)	.. 6/6	6/9
Near Vision (corrected)	.. JI	J2

Myopia of not more than—2.5 D in any one meridian.

Hypermetropia of not more than +3.5 D in any one meridian.

NOTE.—1. Fundus and Media to be healthy and within normal limits.

2. No undue degenerative signs of vitreous or choroido-retina to be present suggesting progressive myopia.
3. Should have good binocular vision, fusion faculty and full field of vision in both eyes.
4. There should be no organic disease likely to exacerbations or deterioration

(b) Colour vision Inability to distinguish primary colours will not be regarded as cause for rejection but the fact will be noted in the proceedings and the candidate informed.

(c) Requirements for the Services.

ARMY-VS II (Minimum Standard)

NAVY (i).—V.S.I. No glasses will be worn by candidates for the Executive Branch but these standards may be relaxed for a limited number of otherwise suitable candidates for

Engineering, Electrical and Supply and Secretariat Branches up to 6'18, 6/36 correctable to 6/6 both eyes with glasses.

(ii) Special requirements.

Night Vision Standard—Candidates who fail to secure Grade II (eleven) are to be rejected.

Heterophoria—Must not exceed

Exophoria	}	8 prism dioptres
Esophoria	}	

Hyperphoria 1 prism dioptre

Limits of hypermetropia (under *homatropine*)

Better Eye

Hypermetropia 1.50 dioptres

Simple Hypermetropic astigmatism 0.75 dioptre

Compound Hypermetropic astigmatism The error in the more hypermetropic meridian must not exceed 1.5 dioptres of which not more than 0.75 dioptre may be due to astigmatism.

Worse Eye

Hypermetropia 2.5 dioptres

Simple Hypermetropic astigmatism 1.5 dioptres

Compound Hypermetropic astigmatism The error in the more hypermetropic meridian must not exceed 2.5 dioptres of which not more than 1.0 dioptre may be due to astigmatism

Colour Perception .. Standard I (Martin Lantern)

AIR FORCE (i)—V.S.I. No glasses will be worn.

(ii) Special requirements.

Manifest Hypermetropia must not exceed 2.25 D.

Ocular Muscle Balance :

Heterophoria with the Maddox Rod test must not exceed

(a) at 6 metres .. Exophoria 6 prism dioptres.
Esophoria 6 prism dioptres.
Hyperphoria 1 prism dioptre.

(b) at 33 cms. .. Exophoria 6 prism dioptres.
Esophoria 6 prism dioptres.
Hyperphoria 1 prism dioptre.

Binocular vision.—Candidate must possess good binocular vision (fusion and stotopsis with good amplitude).

6. Hearing Standard

Hearing will be tested by speech test. Where required audiometric records will also be taken.

(a) Speech Test

The candidate should be able to hear a forced whisper with each ear separately standing with his back to the examiner at a distance of 609.5 cm. in a reasonably quiet room. The examiner should whisper with the residual air; that is to say at the end of an ordinary expiration.

(b) Audiometric Record

The candidate will have no loss of hearing in either ear at frequencies 128 to 4096 cycles per second (Audiometry reading between +10 and -10).

No. 1283, dated 24th May 1965.—In supersession of this Ministry's Notification No. 903, dated the 31st March 1965, published in Part I Section 3 of the Gazette of India, dated 17th April 1965, the President hereby makes the following amendments in the rules regulating the recruitment to the Indian Ordnance Factories Service Class I published under Ministry of Defence Notification No. 783-A, dated the 16th April 1962, as amended by the Notification No. 994, dated the 10th May, 1962 and 876, dated the 10th April, 1963, 1377, dated the 1st June 1963, and 628, dated the 5th March 1964 :—

(1) For the existing para 7 substitute the following :—

7. Age limit—

(a) A candidate must have attained the age of 20 years and must not have attained the age of 25 years on the first day of August of the year in which the examination is held,

- (b) The upper age-limit mentioned at (a) above will be relaxable up to 30 years in case of candidates who hold substantively permanent appointments at the Ordnance Factories. This relaxation will not be admissible to a probationer appointed against a permanent post in the Ordnance Factories during the period of his probation.

Provided that no candidate shall be permitted, under the relaxation of the upper age-limit mentioned at (b) above, to compete more than three times at the examination.

- (c) The upper age-limit prescribed above will be further relaxable—
- (i) up to a maximum of five years if a candidate belongs to a Scheduled Caste or a Scheduled Tribe;
 - (ii) up to a maximum of three years, if a candidate is a *bona fide* displaced person from East Pakistan and has migrated to India on or after January 1, 1964;
 - (iii) up to a maximum of eight years, if a candidate belongs to a Scheduled Caste or a Scheduled Tribe and is also a *bona fide* displaced person from East Pakistan and has migrated to India on or after January 1, 1964;
 - (iv) up to a maximum of three years if a candidate is a resident of the Union Territory of Pondicherry and has received education through the medium of French at one stage or another;
 - (v) up to a maximum of four years if a candidate belongs to the Andaman and Nicobar Islands;
 - (vi) up to a maximum of three years if a candidate is an Indian citizen and is a repatriate from Ceylon;
 - (vii) up to a maximum of three years if a candidate is a resident of the Union Territory of Goa, Daman and Diu; and
 - (viii) up to a maximum of three years if a candidate is of Indian origin and has migrated from Kenya, Uganda and the United Republic of Tanzania (formerly Tanganyika and Zanzibar).

N.B. I.

If this examination is a combined examination for the purpose of making appointments to more than one service or post, a candidate shall be deemed to have competed at the examination once for all the Services/Posts ordinarily covered by the examination if he competes for any one or more of the Services/Posts.

A candidate shall be deemed to have competed at the examination if he actually appears in any one or more subjects.

- N.B. II.* The candidature of a person who is admitted to the examination under the age concession mentioned at (b) above, is liable to be cancelled, if, after submitting his application he resigns from Service or his Services are terminated by his Department, either before or after taking the examination. He will however, continue to be eligible if he is retrenched from the Service or post after submitting his application for the examination.

A candidate who, after submitting his application to the Director General of Ordnance Factories, is transferred to other Department/Office will be eligible to compete under the age concession mentioned at (b) above for appointment to the Service for which he would have been eligible but for his transfer, provided his application is forwarded by the Director General of Ordnance Factories.

SAVE AS PROVIDED ABOVE THE AGE-LIMITS PREScribed CAN IN NO CASE BE RELAXED.

(2) Add the following as para 8 and renumber subsequent paras—

"8. A candidate already in Government Service, whether in a permanent or a temporary capacity, must obtain prior permission of the Head of the Department to appear for the Examination."

(3) Clause (b) of the existing para 8 shall be substituted by the following :—

(b) Passed Sections A and B of Associate Membership Examination of the Institution of Engineers (India) or have any other educational qualification recognised by that Institution as exempting from passing these Sections; or"

V. I. RAJAGOPAL, Under Secy.

